

CLAIMS:

1. A positive-pressure respirator hood assembly comprising, a gas-impermeable hood made of a flexible material, formed with at least a transparent visor portion; a gas treatment unit, comprising a filter and a power-operated blower to force air through the filter and generate a positive pressure within the hood; a one-way purge valve for facilitating the exhaust of exhaled gases and moisture from the hood; and a sealing portion for sealingly securing the hood over a body portion of the user; the respirator hood assembly is designed to be compactly received in a container and to be deployed into an operative state automatically, whereby a user is provided protection from toxic gases and particulate material.
2. A respirator hood assembly according to claim 1, where the container is part of an activating mechanism for deploying the respirator hood into the operative state.
3. A respirator hood assembly according to claim 1, where the body portion is a user's neck and where the sealing portion is a neck-engaging collar made of an elastic material.
4. A respirator hood assembly according to claim 1, where the sealing portion is designed to easily stretch over the head of the user and sealingly fit around the neck of the user after the hood is donned.
5. A respirator hood assembly according to claim 1, where the body portion is a user's torso and where the sealing portion is a torso-engaging and sealing wrap.
6. A respirator hood assembly according to claim 5, wherein the sealing wrap is adapted for elastic engagement over the user's torso.
7. A respirator hood assembly according to claim 1, where the respirator hood is suitable also for an animal.
8. A respirator hood assembly according to claim 1, wherein the container comprises at least one detachable member articulated with an activating switch of

10020936-121901

the gas treatment unit, whereby detaching the member activates the power-operated blower.

9. A respirator hood assembly according to claim 8, wherein the at least one detachable member is re-insertable whereby the power-operated blower is
5 de-activated.

10. A respirator hood assembly according to claim 2, wherein the container comprises a front and a rear cover, at least one of which is articulated to the activating switch of the gas treatment unit.

11. A respirator hood assembly according to claim 10, wherein the front and
10 rear covers are engageable into a closed position, wherein the respiratory hood and gas treatment unit are confined within the container in a gas-tight manner.

12. A respirator hood assembly according to claim 10, wherein at least one of the front and rear cover is fitted with a handle, to facilitate its detachment.

13. A respirator hood assembly according to claim 1, having a storage state
15 and an operative state; wherein at said storage state the respiratory hood and gas treatment unit are sealingly received within a container whereupon opening the container automatically activates the gas treatment unit.

14. A respirator hood assembly according to claim 13, wherein the container is rigid.

20 15. A respirator hood assembly according to claim 13, wherein the gas treatment unit comprises an activating switch coupled via a toggle member to a portion of the container, whereby opening the container automatically activates the switch.

16. A respirator hood according to claim 10, wherein the toggle member is
25 attached to one of the cover members by a latch.

17. A respirator hood according to claim 10, wherein the latch ruptures upon opening the container.

18. A respirator hood assembly according to claim 1, where the protection from toxic gases, particles, fine spray, or aerosols is protection from inhalation.

10020936-121901

10/1
Ante J

19. A respirator hood assembly according to claim 1, where the protection from toxic gases, particles, fine spray, or aerosols is protection from contact.
20. A respirator hood assembly according to claim 1, where the activation of the gas treatment unit is automatic by a mechanical means.
- 5 21. A respirator hood assembly according to claim 1, where the assembly is easily and conveniently carried in a purse or briefcase and/or stored nearby the user.
22. A respirator hood assembly according to claim 1, where the assembly fits within a standard office briefcase.
23. A respirator hood assembly according to claim 1, where the assembly is
10 designed as a one-size-fits-all above the age of three.
24. A respirator hood assembly according to claim 1, where the hood is designed to fit users of a size range from toddlers to large adults.
25. A respirator hood assembly according to claim 1, where the hood is designed to fit users regardless of head or facial features.
- 15 26. A respirator hood assembly according to claim 1, where the hood is designed to fit users who have long hair or wear eyeglasses.
27. A respirator hood assembly according to claim 1, wherein the gas treatment unit is fixed to the respirator hood.
28. A respirator hood assembly according to claim 1, wherein the gas
20 treatment unit forces filtered air into the respirator hood giving rise to pressure build-up therein.

10020936 121901